

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

**ZOOROB et al**

Atty. Ref.: **1721-46**

Continuation of Serial No. **09/554,911**

Group:

Filed: **January 14, 2002**

Examiner:

For: **REAGENTS AND METHODS FOR DETECTING GENES  
RELATED TO MAJOR HISTOCOMPATIBILITY  
COMPLEX OF DOMESTIC FOWL, SUCH AS CHICKEN**

\* \* \* \* \*

**January 14, 2002**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**PRELIMINARY AMENDMENT**

Preliminarily amend the above-identified application as follows.

**IN THE SPECIFICATION**

Amend the specification as follows.

Page 3, delete the paragraphs spanning lines 13-19, and insert the following  
therefor:

--sequence of the Rfp-Y system

B-FV (figure 1) (SEQ ID NO:1); B-F VI (figure 2) (SEQ ID NO:2);

sequence of the B system,

genomic 8.4 (figure 3) (SEQ ID NO:3); B-F I (figure 4) (SEQ ID NO:4); C121 (figure 5)  
(SEQ ID NO:5); DM (figure 6) (SEQ ID NO:6); TAPI (of the beginning of exon 2 at the 3'  
end) (figure 7) (SEQ ID NOS:7 & 45); and TAP2G (figure 8) (SEQ ID NOS:8 & 46), and

other genes comprised in figure 10 (SEQ ID NOS:7 & 45 respectively, in order of appearance) and continuations 1 to 35.--

Page 4, delete the paragraphs spanning lines 15 and 16, and insert the following therefor:

-- Y-F VI 1 (SEQ ID NO:47): GGCCCCGGGATGCCGCGGTTC

Y-F VI 1, R (SEQ ID NO:48 : ATCCGCTCACCGCCCTGG--

Page 4, delete the paragraphs spanning lines 24-27, and insert the following therefor:

--B-FI (SEQ ID NO:49): 5'CCA GCA GTC ACT GCA CAT AT 3'

B-FI,R (SEQ ID NO:50): 5'AGG TGG AGT GCG CAA AGT T 3' ;and

12.1 (SEQ ID NO:51): AGA CGC AGC AGA ACT TGG TAA 3'

12.1 R (SEQ ID NO:52): 5'GGA AGG AAG ACC TTG GAA 3'--

Page 5, delete the paragraphs spanning lines 30-31, and insert the following therefor:

--17.52 (SEQ ID NO:53): CAG GAT CTG CAC TGG CCA ATA

17.5, R1 (SEQ ID NO:54): GAA TGG CGG TGC TTC CGT GCC TGG--

### **IN THE CLAIMS**

Amend the claims as follows.

7. (Amended) Method of genotyping domestic fowl and enabling animals resistant to viro-induced diseases to be controlled, characterised in that it comprises:

**ZOOROB et al**  
**Continuation of Serial No. 09/554,911**

-amplification of a sample of nucleic acid originating from the animal to be studied using one or more pairs of primers capable of hybridising specifically with the nucleic acid of a polymorphic region of the Rfp-Y or B systems of the MHC of the said birds, said primers being elaborated from nucleic acid molecules according to claim 1,

-detection of the PCR products obtained.

9. (Amended) Unit or kit for genotyping domestic fowl, characterised in that they contain the necessary reagents for carrying out at least one PCR and the detection test, according to the method of claim 7.

**REMARKS**

An early and favorable Action on the merits in the above-identified application is requested.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By: \_\_\_\_\_



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**MARKED UP SPECIFICATION AND CLAIMS**

Page 3, delete the paragraphs spanning lines 13-19, and insert the following therefor:

--sequence of the Rfp-Y system

B-FV (figure 1) (SEQ ID NO:1); B-F VI (figure 2) (SEQ ID NO:2);

sequence of the B system,

genomic 8.4 (figure 3) (SEQ ID NO:3); B-F I (figure 4) (SEQ ID NO:4); C121 (figure 5) (SEQ ID NO:5); DM (figure 6) (SEQ ID NO:6); TAPI (of the beginning of exon 2 at the 3' end) (figure 7) (SEQ ID NOS:7 & 45); and TAP2G (figure 8) (SEQ ID NOS:8 & 46), and other genes comprised in figure 10 (SEQ ID NOS:7 & 45 respectively, in order of appearance) and continuations 1 to 35.--

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**IN THE CLAIMS**

7. (Amended) Method of genotyping domestic fowl and enabling animals resistant to viro-induced diseases to be controlled, characterised in that it comprises:
- amplification of a sample of nucleic acid originating from the animal to be studied using one or more pairs of primers capable of hybridising specifically with the nucleic acid of a polymorphic region of the Rfp-Y or B systems of the MHC of the said birds, said primers being elaborated from nucleic acid molecules according to [any one of claim 1 to 6] claim 1,
  - detection of the PCR products obtained.

9. (Amended) Unit or kit for genotyping domestic fowl, characterised in that they contain the necessary reagents for carrying out at least one PCR and the detection test, according to the method of claim 7 [or 8].